

Contents

Volume 217

Special Issue: Proceedings of a Conference on Graphs and Matrices in Honor of John Maybee

J. RICHARD LUNDGREN (Denver, Colorado) A Brief History of John Maybee's Career	1
CHARLES A. ANDERSON (Denver, Colorado) Loop and Cyclic Niche Graphs	5
LEROY B. BEASLEY AND SHUMIN YE (Logan, Utah) Linear Operators Which Preserve Sign-Nonsingular Matrices	15
ELIZABETH D. BOYER AND BRYAN L. SHADER (Laramie, Wyoming) On Biclique Decompositions of Complete t -partite Graphs	31
R. C. BRIGHAM (Orlando, Florida), F. R. MCMORRIS (Louisville, Kentucky), AND R. P. VITRAY (Winter Park, Florida) Tolerance Competition Graphs	41
KAREN CASEY DARGEN AND KATHRYN FRAUGHNAUGH (Denver, Colorado) Conditional Chromatic Numbers With Forbidden Cycles	53
RONALD D. DUTTON, SIRISHA R. MEDIDI, AND ROBERT C. BRIGHAM (Orlando, Florida) Changing and Unchanging of the Radius of a Graph	67
DAVID C. FISHER AND RICHARD B. REEVES (Denver, Colorado) Optimal Strategies for Random Tournament Games.	83
DAVID C. FISHER AND JENNIFER RYAN (Denver, Colorado) Tournament Games and Condorcet Voting.	87
D. A. GREGORY (Kingston, Ontario, Canada), S. J. KIRKLAND (Regina, Saskatchewan, Canada), AND N. J. PULLMAN (Kingston, Ontario, Canada) A Bound on the Exponent of a Primitive Matrix Using Boolean Rank	101
KARL GUSTAFSON (Boulder, Colorado) Matrix Trigonometry	117

Table of Contents continued

DOUGLAS HALE (Washington, D.C.) AND GEORGE LADY (Philadelphia, Pennsylvania) Qualitative Comparative Statics and Audits of Model Performance141
CHARLES R. JOHNSON (Williamsburg, Virginia), D. DALE OLESKY, AND P. VAN DEN DRIESCHE (Victoria, British Columbia, Canada) Sign Determinancy in <u>LU</u> Factorization of <i>P</i> -matrices155
SUH-RYUNG KIM (Staten Island, New York), TERRY A. MCKEE (Dayton, Ohio), F. R. MCMORRIS (Louisville, Kentucky), AND FRED S. ROBERTS (New Brunswick, New Jersey) <i>p</i> -Competition Graphs167
STEVE KIRKLAND (Regina, Saskatchewan, Canada) Spectral Radii of Tournament Matrices Whose Graphs Are Related by an Arc Reversal179
J. RICHARD LUNDGREN, SARAH K. MERZ (Denver, Colorado), JOHN S. MAYBEE (Boulder, Colorado), AND CRAIG W. RASMUSSEN (Monterey, California) A Characterization of Graphs With Interval Two-Step Graphs203
J. RICHARD LUNDGREN, SARAH K. MERZ (Denver, Colorado), AND CRAIG W. RASMUSSEN (Monterey, California) Chromatic Numbers of Competition Graphs225
THOMAS LUNDY (Victoria, British Columbia, Canada), JOHN S. MAYBEE (Boulder, Colorado), AND ASOK K. SEN (Indianapolis, Indiana) <i>S</i> -Inverse Matrices241
FRED S. ROBERTS (New Brunswick, New Jersey) On the Problem of Consistent Marking of a Graph255
AUTHOR INDEX265

